CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2017-06-21-02 **Date: 22-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Stage Platform and Construction of Roof Struss Covering at GPS School in Ward No.04
Agency	:	Sri.Suresh.N, No:14, 1st main, 3rd cross, Goruguntepalya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/65/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-17
Sample ID No	:	2017-06-21-02-01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	21-06-17

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.24	–
2	Finess by Air permeablity method (m^2/kg, Min)	274.5	225m^2/kg, Min
3	Density (gm/cc)	3.13	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	145 minutes	Not less than 30 minutes
6	Final Setting time	260 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	2mm	Not more than 10 mm

Note:

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Certificate No.: TC-5548

CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2017-06-21-02** **Date: 19-07-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Stage Platform and Construction of Roof Struss Covering at GPS School in Ward No.04
Agency	:	Sri.Suresh.N, No:14, 1st main, 3rd cross, Goruguntepalya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/65/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-17
Sample ID No	:	2017-06-21-02-01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	21-06-17

Compressive Strength

SLNo.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	56.5N/mm^2	Not less than 53 N/mm^2

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CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-06-21-02** **Date: 24-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Stage Platform and Construction of Roof Struss Covering at GPS School in Ward No.04
Agency	:	Sri.Suresh.N, No:14, 1st main, 3rd cross, Goruguntepalya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/65/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	21-06-17
Sample ID No	:	2017-06-21-02-02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-06-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	286	286	1.9	98.1	90-100
3	20 mm	5426	5712	38.1	61.9	30-70
4	10 mm	4556	10268	68.5	31.5	10-35
5	4.75 mm	4324	14592	97.3	2.7	0-5
6	Pan	408	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-06-21-02** **Date: 24-06-17**

Sample ID No : 2017-06-21-02-02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	12.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.4	
3	Specific Gravity	2.69	–
4	Bulk Density(Loose) (Kg/l)	1.50	–
5	Bulk Density(Compacted) (Kg/l)	1.52	–
6	Water Absorption(%)	0.21	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2017-06-21-02** **Date: 24-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Stage Platform and Construction of Roof Struss Covering at GPS School in Ward No.04
Agency	:	Sri.Suresh.N, No:14, 1st main, 3rd cross, Goruguntepalya, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/65/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-17
Sample ID No	:	2017-06-21-02-02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	21-06-17

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	276	276	5.5	94.5	90-100
3	10 mm	2654	2930	58.6	41.4	25-55
4	4.75 mm	1756	4686	93.7	6.3	0-10
5	Pan	314	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2017-06-21-02** **Date: 24-06-17**

Sample ID No : 2017-06-21-02-02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.4	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.6	
3	Specific Gravity	2.65	–
4	Bulk Density(Loose) (Kg/l)	1.54	–
5	Bulk Density(Compacted) (Kg/l)	1.57	–
6	Water Absorption(%)	0.24	–
7	Ten percent fine value(KN)		–
7	Aggregate crushing Value(%)	21.3	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	20..8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID	:	CP-2017-06-21-02
		Date: 24-06-17
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Stage Platform and Construction of Roof Struss Covering at GPS School in Ward No.04
Agency	:	Sri.Suresh.N, No:14, 1st main, 3rd cross, Goruguntepalya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/65/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-17
Sample ID No	:	2017-06-21-02-03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	21-06-17
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	85	85	8.5	91.5	90-100	90-100	90-100	95-100
3	2.36 mm	145	230	23.0	77.0	60-95	75-100	85-100	95-100
4	1.18 mm	168	398	39.8	60.2	30-70	55-90	75-100	90-100
5	600 micron	178	576	57.6	42.4	15-34	35-59	60-79	80-100
6	300 micron	188	764	76.4	23.6	5-20	8-30	12-40	15-50
7	150 micron	152	916	91.6	8.4	0-10	0-10	0-10	0-15
8	Pan	84	1000	100.0	0.0	---	---	---	---
Result :The tested Sample Conforms to Grading Zone II									

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2017-06-21-02 Date: 24-06-17

Sample ID No : 2017-06-21-02-03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	2.1	–
2	Specific Gravity	2.6	–
3	Material finer than 75 micron(%)	6.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST RESULTS OF STEEL

Lab ID	:	CP-2017-06-21-02
		Date: 24-06-17
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Stage Platform and Construction of Roof Struss Covering at GPS School in Ward No.04
Agency	:	Sri.Suresh.N, No:14, 1st main, 3rd cross, Goruguntepalya, Bangalore.
Customer's Reference	:	EE(YNK.D)E-PMT-07/W.O/65/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-17
Sample ID No	:	2017-06-21-02-04
Sample Type	:	JSW
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	23-06-17

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	JSW	Fe500	8	0.392	542	672	20.0%	Satisfactory	Satisfactory
2	JSW	Fe500	10	0.612	568	685	20.0%	Satisfactory	Satisfactory
3	JSW	Fe500	12	0.888	585	692	19.0%	Satisfactory	Satisfactory

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CEMENT CONCRETE FLOORING TILES

Lab ID	:	CP-2017-06-21-02 **Date: 26-06-17**
Customer	:	Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Satellite Town Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Stage Platform and Construction of Roof Struss Covering at GPS School in Ward No.04
Agency	:	Sri.Suresh.N, No:14, 1st main, 3rd cross, Goruguntepalya, Bangalore.
Customer Reference	:	EE(YNK.D)E-PMT-07/W.O/65/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-06-17
Sample ID No	:	2017-06-21-02-05
Sample Type/ Size	:	Pre-Polished Designer Cement Concrete Tiles
Reference to BIS codes	:	IS 1237:2012
Date of test	:	22-06-17

1.Wet Transverse Strength

Sl.No.	Dimension (mm)			Wet Transverse Strength	Average	Requirement as per IS:1237-2012
	L	B	T	(N/mm^2)	(N/mm^2)	
1	400	400	25.17	7.82	7.78	The average wet transverse strength shall not be less than $3N/mm^2$
2	400	400	25.42	8.10		
3	400	400	25.05	7.40		
4	400	400	25.19	7.88		
5	400	400	25.22	8.10		
6	400	400	25.25	7.40		

2. Water Absorption

Sl.No.	Dimension (mm)			Water Absorption	Average	Requirement as per IS:1237-2012
	L	B	T	(%)	(%)	
1	400	400	25.05	3.17	3.84	The average percentage of water absorption shall not exceed 10.
2	400	400	25.17	3.22		
3	400	400	25.06	4.19		
4	400	400	25.16	4.17		
5	400	400	25.08	3.98		
6	400	400	25.11	4.32		

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Certificate No.: TC-5548

CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-07-02 Date: 10/07/2017

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Stage Platform and Construction of Roof Struss Covering at GPS School in Ward No.04

Agency : Sri.Suresh.N, No:14, 1st main, 3rd cross, Goruguntepalya, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/65/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-07-17

Sample ID No : 2017-07-07-02-01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 10/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	03/07/2017	10/07/2017	150.52 X 150.54 X 150.55	22659	8.355	387.5	17.1	
2	PCC	M20	03/07/2017	10/07/2017	150.42 X 150.54 X 150.45	22644	8.321	380.4	16.8	16.8
3	PCC	M20	03/07/2017	10/07/2017	150.42 X 150.34 X 150.35	22614	8.334	370.9	16.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2017-07-07-02 **Date: 31/07/2017**

Customer : Assistant Executive Engineer, Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Address : Yelahanka Satellite Town Sub Division, BBMP, Bangalore.

Project Name : Improvements to Stage Platform and Construction of Roof Struss Covering at GPS School in Ward No.04

Agency : Sri.Suresh.N, No:14, 1st main, 3rd cross, Goruguntepalya, Bangalore.

Customer's Reference : EE(YNK.D)E-PMT-07/W.O/65/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 07-07-17

Sample ID No : 2017-07-07-02-02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/07/2017

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M20	03/07/2017	31/07/2017	150.52 X 150.54 X 150.55	22659	8.355	484.9	21.4	21.3
2	PCC	M20	03/07/2017	31/07/2017	150.42 X 150.54 X 150.45	22644	8.321	480.1	21.2	
3	PCC	M20	03/07/2017	31/07/2017	150.42 X 150.34 X 150.35	22614	8.334	481.7	21.3	

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